

The Theory of Electrokinetic Phenomena, by
H. J. Gel, 30 pp.

GERMAN, par, Z. Physik Chemie, Vol V, 1955,
pp 32-51. 9066965

AEC Rp-Tr-914

Sci - Phys
Oct 62

312, 673

Thermal Separation of Ortho- and Para-Hydrogen at
Very Low Temperatures, by E. W. Becker, W. Henkes,
U. Siefert.

GERMAN, per, Z. Physik Chem, Vol V, No 1, 2, Sep 1955,
pp 90-99.

*ATIC

Sci - Chem

Apr 57 CTS

Potential Difference Within the Passive Layer
of Iron, by Klaus J. Vetter

GERMAN, per, Z. fuer Physik Chemie, No 4, 1955,
pp 165-174.

Navy Tr ~~143/NRL~~ 1431/NRL 587

Sci - Chemistry
Jan 57 GTS

42,283

Behavior of Charged Porous Membranes During the
Passage of Current, by R. Schlögl, E. Schödel.
GERMAN
~~unclassified~~, no per, ~~unclassified~~, ^{de-5} Feb 4, 1955,
pp 372-397. *Z. Physikalische Chemie*

D.B.I.R./27035

Sci - ~~unclassified~~ Chemistry
Apr 57 CDE/dax

46,826

NIH 1-21-64

Solution of Oxides of Dioute Acids, by H.J.Engell.
GERMAN, per, Z. Physik Chem, No 2, 1956, pp 151-158
EZ

Sci -
Aug 67

336,507

Description of one Experimental Method for the
Continuous Observation of the Kirkendall Effects,
by W. W. Karger.

GERMAN, per, 2, Phys. Chem., N. F., 7, 1956,
pp 119-121.

*NBS TT 70-57306

*NBS TT 70-75805

Sci-Phys
Aug 70

Reactions in Solid Silicates, by R. Linder.
GERMAN, per, Zeit Phys Chem, Vol 6, 1956, pp 129-
142.
*Nat Bur Stand TT 70-57827

Sci-Phys
Jul 70

Self-Diffusion and Reactions in Oxide and Spinel
Systems, by R. Linder.
GERMAN, per, Zeit Phys Chem, Vol 6, 1956,
pp 162-177.
*Nat Bur Stand TT 70-37788

Sci-Phys

English Title Unknown, by R. Gerischer,
H. Gerischer,
GERMAN, per, Z. Physik. Chem., Vol VI, 1956,
pp 178-200.
*NASA TT F-10,999

GOVERNMENT USE ONLY
Sci-
Jul 67

Solubility of Solid Substances in Condensed Gases,
by E. W. Franck, 14 pp.

GERMAN, per, Z. Phys Chem, Vol VI, 1956, pp
345-355.

SLA 57-3054

Sci

Aug 58

71,188

The Radiochemistry of Organic Compounds Dissolved
in Water, by J. H. Bagendale, D. H. Smithies,
33 pp.

GERMAN, per, Z Physik Chem, 19 Vol: VII, 1956,
pp 283-264.

NIE Tr 4-20

Sci - Chem

May 58

64,096

On the Statistical Theory of Solid Solutions,
by A. Munster and K. Sagel, 40 pp.

GERMAN, per, Z. Phys Chem, New Ser 7, 1956,
pp 267-295.

SLA 57-3340

Sci

Aug 58

72,771

An Examination of Autocatalytic Reactions on Surfaces
of Separation, by G. Schwab, S. Reithmayer, 16 pp.

GERMAN, per, Z. Phys Chem Neue Folge, Vol VII, 1956,
pp 342-359.

SLA 58-217
AEX: Tr 3078

Sci

Aug 59

93,609

62-18396

I. Zanker, V.

Zanker, Valentin.
LOW-TEMPERATURE ABSORPTION OF THE PHOSPHORESCENCE STATE IN THE ACRIDINE ORANGE CATION AND ITS DEPENDENCE ON THE CONCENTRATION. [1962] 8p. (figs. omitted) 8 refs.
Order from SLA \$1.10 62-18396

Trans. of Zeitschrift für Physikalische Chemie (West Germany) 1956 [Neue Folge] v. 8 [no. 1] p. 20-31.

DESCRIPTORS: *Dyes, *Acridines, Ions,
*Phosphorescence, Absorption spectrum, Low temperature research.

On the singly charged acridine orange cation the triplet absorption is examined at -183°C in the concentration range 10^{-3} to 10^{-2} molar in a mixture of alcohol (96%) and ether (water-saturated). In qualitative measurements triplet bands are found in the range of from 8000 to $20,000\text{ cm}^{-1}$ at 8100, 8400, 8600, 9000, 9200, 9600, (Chemistry--Physical, TT, v. 9, no. 5) (over)

Office of Technical Services

The Relation Between the Rate of the Cathodic Hydrogen-Evolution Reaction and the Adsorption Enthalpy of Atomic Hydrogen on Various Metals,

GERMAN, per, Z Phys Chem, Vol VIII, 1956, pp 137-153.

RAE Tr 801

Sci - Physics, Minerals/Metals
Jul 59

92, 189

Ion Dissociation of HCl, KOH and H_2O in Above-Critical Water, by E. U. Franck, 21 pp.

GERMAN, per, Z Phys Chem, Vol VIII, (new series). 1956, pp 192-206.

SLA 57-2591

FROM
Sci
Aug 58

68,260

Anisotropy in Electrical Conductivity of Stirred
Soap Solutions, by K. Heckmann.

GERMAN, per, Z. für Physikalische Chemie,
1956, pp 318-337.

GB/190

Sci
Dec 62

Solubility of Solids in Compressed Gases,
by E. U. Franck.
GERMAN, per, Zeit Phys Chem, Vol 6, 1956,
pp 345-355.
NLL Ref: 9022.09 (4902)

Sci-Phys
June 69

384,570

The Concentration Dependence of the Diffusion
Coefficient in the Cu-Ni System, by V. Freise.
GERMAN, per, Z. Phys. Chem., N. F., 8, 1956,
pp 387-389.
*NBS TT 70-57305

Sci-Mat
Aug 70

Raman Spectra of Lithium, Sodium, Potassium
and Silver Halide Melts, by W. Raman, 1957.

GERMAN, per, Z. Physik Chem, Vol X, 1957,
pp 1-23.

ASC-Tr-3707

Sci - Chem, Phys

Jul 59

92,051

X-Ray Determination of the Electron Distribution
in Crystals, by A. Weiss, H. Witte, E. Wolfel,
10 pp.

SHERMAN, per, Z. fuer Physikalische Chemie,
Vol X, 1957, pp 98-132. 9093324

ABC Tr-4991

Sci - Phys, Chem
Apr 62

191,305

60-19162

Huckel, H., Kraft, G. and others.
INFLUENCE OF FINITE ION DIMENSIONS ON THE
THERMODYNAMIC BEHAVIOR OF ELECTROLYTE
SOLUTIONS [AND DISCUSSIONS] tr. by Bertha P.
Klenova. 16 Apr 57 [45] p. 93 refs. [No.] 3425.
Order from OTS or EIA \$6.60 60-19162

Trans. of Z. physikal. Chem. [is]
Frankfurt (West Germany) 1955, v. 5, p. 155-182;
1957, v. 5, p. 305-322; 1957, v. 10, p. 156-160.

DESCRIPTORS: *Ions, *Electrolytes *Thermodynam-
ics, Statistical functions, Electrochemistry, Solutions

(Chemistry--Physical, TT, v. 8, no. 1)

- I. Huckel, E.
- II. Kraft, G.
- III. TVA-3425
- IV. Tennessee Valley
Authority, Wilson
Dam., Ala.

5-18-62

Office of Technical Services

Diffusion of Ions and Electrons, by
H. J. Oel, 19 pp.
GERMAN, per, Z. Phys Chem, NF, 10, 1957
pp. 165-183.
*CFSTI TT 70-58119
AVAILABLE FROM NBS ONLY

Sci/phys
Apr 70

Rösinger, Sigurd.
DOSIMETRY OF X-RAYS AND HIGH ENERGY
ELECTRONS WITH AN AQUEOUS FERROUS
SULFATE SOLUTION. [1961] [12]p. 45 refs.
Order from SLA \$1.60

61-20264

Trans. of Zeitschrift für Physikalische Chemie
[Frankfurt] (West Germany) 1957, Neue Folge, v. 10,
p. 310-322.

DESCRIPTORS: *X-rays, *Electrons, *Dosimeters,
*Iron compounds, *Sulfates, Radiochemistry.

(Chemistry--Physical, TT, v. 7, no. 2)

61-20264

I. Rösinger, S.

Office of Technical Services

The Effect of Methyl Groups Upon the Ionization
Potential of Aromatic and Unsaturated Compounds, by
Hermann and Stendsen Hartmann, Bonnevie Moj, 15 pp.

GERMAN, per, Zeit fuer Physik Chem, Vol XI, 1957,
pp 16-29.

SLA 59-10666

Sci & Chem
Sep 59
Vol 2, No 1

97,268

The Elastoplastic Behavior of a (Seltionie
Kochangst, by D. Koschal, R. Schloegl, 13 pp.
OKMAN, per, Zeit. Fur Physik. Chem. (New
Series, Vol 11, 1957, pp 137-149. F911248867
AEC CHEL Tr-1663

331,094

Sci + Physics
Aug 67

Hartmann, Hermann and Rinck, Günter.
THE DISPROPORTIONATION EQUILIBRIUM OF
TITANIUM TRICHLORIDE. [1960] 25p. (3 figs.
omitted) 30 refs.
Order from SLA m\$2.70, ph\$4.80 61-10385

Trans. of Zeitschrift für Physikalische Chemie
[Frankfurt] (Wiesbaden) 1957, Neue Folge v. 11
[no. 3/4] p. 213-233.

The equilibrium of the disproportionation of titanium trichloride was measured between 540 and 700°C according to the method of "freezing" the equilibria by chilling. The partial pressure of $TiCl_4$ increases considerably with rising temperature. The disproportionation is therefore endothermic. In the temperature region investigated a mean reaction enthalpy of $\Delta H^\circ = 35.5 \pm 0.5$ kcal and a mean reaction entropy of $\Delta S^\circ = 36.2 \pm 0.6$ cal are obtained. Orientation measurements were made to gain knowledge of the velocity (Chemistry--Physical, TT, v. 5, no. 4) (over)

61-10385

1. Titanium chlorides--
Disproportionation
2. Chemical equilibrium--
Measurement

- I. Hartmann, H.
- II. Rinck, G.

143,170

Office of Technical Services

DIFFUSION EFFECTS IN CATALYSIS WITH ION EXCHANGERS,
BY HEINRICH NOLLER, AGATHE HASSLER, 5 PP.

GERMAN, PER, Z. EUR. PHYSIKALISCHE CHEMIE
FRANKFURT, VOL XI, 1957, PP 267-272.

OTS 60-19164

SCI - PHYS
11 OCT 62
VOL VIII, NO 1

212,315

Product of Carbon Combustion in the
Furnace of Cracking Coke- A Contribution to the
Paper by H. Kossburg, by P. F. Schmidt, R. A.
Mossman, 4 pp.

STIMAN
per, Z Physik Chem, Vol XI, 1957, pp 273,
274.

SLA 57-3395

Sci
Apr 59

84,900

The Continuous Measurement of the
Kirkendall Effect in Metals, by W. Karger
4 pp.
GERMAN, per, Z. Phys Chem., N.F., 12, 1957
pp. 8-12.
*CFSTI TT 70-58120
AVAILABLE FROM NBS ONLY

Sci/phys
Apr 70

Schrader, R., Nerdel, F. and Kresze, G.
METHOD FOR TAKING RAMAN SPECTRA OF
SOLID SUBSTANCES IN THE FORM OF PELLETS, tr.
by Bertha P. Klenova. 23 Aug 57, 6p. 10 refs. [No.]
3657.

Order from OTS or SLA \$1.10

60-19169

Trans. of Zeitschrift für Physik[allache] Chem[ie]
Frankfurt (West Germany) 1957 [n. l.] v. 12, p. 132-138
Another translation is available from ATS \$8.85 as
ATS-44L33G [1959] 5p.

DESCRIPTORS: *Raman spectroscopy, *Solids, *Pellets
*Mercury lamps.

The characteristic features of the method are: (1) the
use of a source of light, as punctiform as possible, of
very high intensity but deficient monochromatically
(Osram mercury vapor lamps HQA 500 without head,
HBO 107) combined with an interference filter or mono-
chromator as the primary filter; (2) the use of pellets
(Physics--Spectroscopy, TT, v. 6, no. 5) (over)

60-19169

- I. Schrader, R.
- II. Nerdel, F.
- III. Kresze, G.
- IV. TVA-3657
- V. Tennessee Valley
Authority, Wilson Dam,
Ala.

HTS-44L33G

180519

Office of Technical Services

4-6-61

X-Ray Determination of Short-Range Order in
Binary Alloys, by A. Münster and K. Sagel.
GERMAN, per. Z. Phys. Chem., New Series 12,
1957, pp 145-167.
P911338667
AEC ORNL-TB-1733

Sci.-Fuel Sci
Nov 67

343,654

Photo-polymerization of styrene with
peroxide-styrene systems: a critical
evaluation of the data, by R. H. Hsieh and
W. H. Hsieh, 47 pp.

General, part 2, J. Phys. Chem., Vol. 71, No. 1, 1967, pp. 99-105.

SLA 19-10982

Sci - Chem
Sep 59
Vol 2, No 1

77892

Sensitized Photopolymerization of Styrene. Part III.
Fluorenone Peroxide-Styrene System; Photopolymerization
by Kurt Ueberreiter, Gunther Sorge, 36 pp.

GERMANY, per, Zeitschrift fuer Physikalische Chemie,
Vol XIII, No 3/4, 1957, pp 158-183.

SLA 59-10941

Sci - Chem
Sep 59
Vol 2, No 1

97, 277

A Generalized Theory of Diffusion-Controlled
Reactions and its Application to Fluorescence
Quenching, by Albert Weller, 26 p.

GERMAN, par, Zeitschrift für Physikalische
Chemie Frankfurt, 1957, Vol XLII, pp 335-352.

SLA 59-17486

Sci
JUN 60
Vol 2, No 8

105,589

Schumacher, H. J.
MECHANISM OF THE THERMAL REACTION
BETWEEN CHLORINE AND OZONE. 18 Jan 61, 19p.
8 refs.
Order from SLA \$1.60 63-10549

Trans. of Z[schrift für] Phys[ikalische]
Chem[ie] Frankfurt (West Germany) 1957, [Neue Folge]
v. 13, p. 353-367.

DESCRIPTORS: Reaction kinetics, *Chlorine,
*Ozone, *Thermochemistry, Decomposition,
Quantitative analysis, Chemical reactions, Heat of
activation.

A complete scheme is given for the reaction between
chlorine and ozone, in which allowance is made for
the chlorine trioxide decomposition occasioned by the
chlorine heptoxide formation. Experiments are
(Chemistry--Physical, TT, v. 10, no. 2) (over)

63-10549

I. Schumacher, H. J.

Office of Technical Services

On the Dissolution of n- and p- Germanium in
Aqueous Electrolyte Solutions Under the Action
of Oxidizing Agents, by H. Gerischer, F. Beck.

GERMAN, per, Z fuer Phys Chem, Vol XIII, 1957,
pp 389-395.

Morris D. Friedman

Sci - Chem
Aug 58

68,910

The Kinetics of the Thermal Decomposition of
Chlorine-Heptoxide in the Gaseous Phase, by
R. V. Figini, E. Colocis, 2³ pp.

GERMAN, per, Z Phys Chem, Vol XIV, 1958,
pp 32-48.

TIL T5314

Sci - Chem

Apr 63

Sci - Chem (41)
6 TT-6 20735
229,315

On the Method of Measurement of Continuous
Diffusion Processes in Solids, by
W. Karger, 18 pp.
GERMAN, per, Zeitschrift für Physikalische
Chemie Neue Folge, 14, 1958, pp. 88-105.
*CFSTI TT 70-58104
AVAILABLE FROM NBS ONLY

Sci/phys
Apr 70

62-16759

Schäfer, Rall and Wirth-Lindemann.
THERMODYNAMIC INVESTIGATIONS ON THE SYSTEM ACETONE-n-HEPTANE AND ACETONE-n-NONANE. (1962) 114 pp. (Eng. tables corrected 12 1966)
Order from SIA 1-1000 62-16759

I. Schäfer, R.
H. Wirth-Lindemann

Trans. of Zeitschrift für Physikalische Chemie (Frankfurt) (West Germany) 1958 [in German] 52, 1-2 (1958) p. 197-207.

DESCRIPTORS: •Thermochemistry, •Thermodynamic data, •Phase studies, •Acetones, •Heptanes, •Nonanes, Evaporation, Vapor pressure.

The evaporation equilibria of the two binary systems acetone-n-heptane and acetone-n-nonane were investigated in a by-pass apparatus in the range 0 to 50°C. The data obtained out of the measurements for calculating the activity coefficient were corrected with respect (Physics--Thermodynamics, TT, v. 9, no. 2) (over)

Office of Technical Services

Mechanical Stresses in the Formation of Oxide Layers,
I. Oxidation of Copper, by Walther Jaenicks,
Siegfried Leistkow, 27 pp.

OSFOMAN, par, Z. Physik Chemie, Vol. XV,
1958, pp 175-195. 9093963

ABC Tr-5240

Sci - Phys, Chem
Sep 62

2/2, 688

Studies on the Kinetics of Scaling of Titanium in
Water Vapor by Application of a Novel Volumetric
Method, by K. Lohberg, H. W. Schleicher,

GERMAN, per, Z. Physik Chem, Vol XV, 1958, pp 223-244.

ATS 507-GJ

Sci - Phys

ATS - 274375

Aug 60

123,935

Treatment of the Exciton by the Many-Electron
Theory, by H. Haken, W. Schottky.
GERMAN, per, Z. Physik. Chem. (Frankfurt) New
Series, Vol 16, 1958, pp 218-244. P911050167
AEC ORNL-tr-1506

Sci/Physics
Mar 67

316,597

AEC (NRC-TT-1518) IMPEDANCE MEASUREMENTS ON
THE MECHANISM OF ELECTROCRYSTALLIZATION OF SILVER.
Lorenz, W. Translated by D. A. Sinclair for National Research
Council of Canada, Ottawa, Ont. , from Z. Phys. Chem. (Frank-
furt): 17: No. 1/2, 136-40(1958). 7p.

chemistry (physical); translations

ND-4 NP RC

Unlimited

61-20269

- I. Peter, S.
- II. Wagner, H.
- III. Title: Geometric...

Peter, S. and Wagner, H.
THE METHODICS OF ACCURATE VISCOSITY
MEASUREMENTS WITH CAPILLARY VISCOSIME-
TERS. I. GEOMETRIC IRREGULARITIES, ADJUST-
MENT IN THE FIELD OF GRAVITY, VALIDITY OF
THE COUETTE-HAGENBACH CORRECTION AND
HOLDUP ERROR (Zur Methodik Genaue
Viskositätsmessungen mit Kapillarviskosimetern. I.
Geometrische Unregelmäßigkeiten, Justierung im
Schwerefeld, Gültigkeit der Couette-Hagenbach-
Korrektur, Nachlauffehler). [1961] [24 p. (foreign
text included) 14 refs.
Order from SLA \$2.60

61-20269

Trans. of Zeitschrift für Physikalische Chemie [Frank-
furt] (West Germany) 1958, Neue Folge, v. 17,
p. 184-198.

DESCRIPTORS: *Hydrostatic pressure, *Viscosime-
ters, Measurement, Test methods, *Gravity,
(Chemistry--Physical, TT, v. 7, no. 4) (over)

Office of Technical Services

Peter, S. and Wagner, E.
THE METHODICS OF ACCURATE VISCOSITY
MEASUREMENTS WITH CAPILLARY VISCOSIME-
TERS. II. INFLUENCE OF THE CAPILLARY
FORCES AND OF THE CHANGE OF THE HYDRO-
STATIC PRESSURE ON THE MEASUREMENT (Zur
Methodik Genaue Viskositätsmessungen mit
Kapillarviskosimetern. II. Einfluss der Kapillark-
räfte und der Änderung des Hydrostatischen Druckes
auf die Messung). [1961][35]p. (foreign text included)
24 refs.

Order from SLA \$3.60

61-20268

Trans. of Zeitschrift für Physikalische Chemie
[Frankfurt](West Germany) 1968, 1968 Folge, v. 17,
p. 199-219.

DESCRIPTORS: *Hydrostatic pressure, *Viscosime-
ters, Measurement, Surface tension, *Carbon tetra-
chloride, *Water, *Propanols, *Cyclohexanols,
(Chemistry--Physical, TT, v. 7, no. 4) (over)

61-20268

I. Peter, S.
II. Wagner, E.
III. Title: Influence...

Office of Technical Services

Halla, Franz.
THE THERMODYNAMICS OF DOLOMITE FORMA-
TION. I. A REVIEW. [1960] 7p.
Order from ATS \$4.00 ATS-50N480

Trans. of Z[schrift für] physikalische Chem[ie],
Frankfurt (West Germany) 1958 (Neue Folge) v. 17,
p. 368-374.

151571

(Chemistry--Physical, TT, v. 5, no. 8)

61-12795

1. Dolomite--Thermodynamic
properties
2. Dolomite--Production
1. Halla, F.
13. ATS-50N480
22. Associated Technical Serv-
ices, Inc., East Orange,
N. J.

Office of Technical Services

Heuglein, A., Dieb, H., and Hoffmeister, W.
 THE REACTION OF SULFUR DIOXIDE WITH HYDRO-
 CARBONS INDUCED BY Co-60 GAMMA RADIATION
 AND 2 MeV ELECTRONS (Die Reaktion des Schwefel-
 dioxyds mit Kohlenwasserstoffen unter Einfluss von
 Co-60-Gamma-Strahlen und 2 MeV-Elektronen). [1964]
 [15]p. 13 ref. 61-10501
 Order from SLA ml\$2.40, ph\$3.30

Trans. of Z[eitschrift für Physikalische] Chemie
 [Frankfurt] (West Germany) 1958 [Neue Folge] v. 18
 [no. 1/2] p. 26-42.

1. Sulfur dioxide - Chemical reactions
2. Hydrocarbons - Chemical reactions
3. Gamma radiation - Ionizing effects
4. Cobalt isotopes (Radioactive) - Ionizing effects
1. Heuglein, A.
- II. Dieb, H.
- III. Hoffmeister, W.

158965

Office of Technical Services

(Chemistry-Physical, TT, v. 5, no. 11)

The Decomposition of Alkyl Chlorides on Hot
Tungsten Wires; A Case of Pseudo-
heterogeneous Catalysis, by G. M. Schwab, D. M.
Young, H. Noller, 28 pp.

GERMAN, per, Zeitschrift für Physikalische Chemie,
Vol XVIII, 1958, pp 118-200.

SLA 60-14015

Sci

133,087

QPS, Vol III, No 7

Mar 60

On the Separation Potential of Thermally Driven
Counter-Current Gas Centrifuges, by W. Groth,
K. H. Welge, 36 pp.

GERMAN, per, Z Physik Chem (Frankfurt)(N.S.),
Vol XIX, 1959, pp 1-20.

AEC Tr-4264

Sci - Phys
9 Mar 61

141,570

Agency: Plesstinny Arsenal R-10368-D
P.O. Req. 133-69b. 1 May 1969
Title: DIE FESTKÖRPERABSORPTIONSSPEKTREN DÜNNER FILME
(Abstract). pp. 206-25. AROMATISCHER VERBINDUNGEN
Author: Von H. H. Perkampus.
Source: Z. Physik. Chem. (Frankfurt). Vol. 19.
(1959). 20pp
Language: German.

Special instruction: Please translate & type 1 copy only.

A New Infra-Red Absorption Spectrum of Ice, by
R. Mitter, R. Necke, W. Lutke.

GERMAN, par, Z. Physik Chem Neue Folge, Vol XIX,
No 1/2, 1959, pp 83-88.

NRCX: TT-854

Sci - Geophysics
Jan 61

136,415

Flow Through Capillary Spaces, by H. Greinacher:

GERMAN, per, Z. fuer. Physikalische Chemie, Vol XIX,
No 1/2, 1959, pp 101-117.

CSIRO Tr 4987

REC 111 IV-111

Sci - Chem

Jun 61.

156,519

Self-Diffusion of Anions in AgI and CuI,
by J. Nolting, 3 pp.

GERMAN, per, Zeitschrift für Physik
chemie Neue Folge, vol. 19, 1959,
pp. 118-120.

*CHSTI TT 70-58075

AVAILABLE FROM NBS ONLY

Sci/chem
Apr 70

Kirkendall Effect in the In-Tl System,
by D. Heitkamp, et al, 3 pp.
GERMAN, per, Zeitschrift fur Physik
Chemie Neue Folge, vol. 19, 1959,
pp. 121-123.
*CFSTI TT 70-58076
AVAILABLE FROM NBS ONLY

Sci/chem
Apr 70

A Photoelectric Ball Method for the Measurement of
Fluorescence Spectra , by G. Kortum, W. Hess, 12 pp.

GERMAN, per, Z fuer Physik Chem, Vol XIX, 1959,
pp 142-155.

US Dept of Commerce
National Bur of Standards

Sci Phys
May 61

NTC 70-13360-075

148,779

Subject: Army Reductase

H-10544-B
3 July 1969

3 July 1969

PL 85-562 (H.R. 2784) 11-1-57

Title: MASS SPECTROMETRIC INVESTIGATION OF PETRO
CHEMICAL PRIMARY PROCESSES WITH THE HELP OF
A FIELD EMISSION ION SOURCE.

Source: Zeitschrift für Psychiatrie und Geistes Heue Folio, 21, 307 - 312 (1958)

Special Instructions: Please translate
Edited draft only.

Language: Chinese

Observations of Diffusion in the Ag-Au
System, by V. Ruth, 19 pp.

GERMAN, per, Zeitschrift fur Physik
Chemie Neue Folge, vol. 20, 1959,
pp. 313-331.

*CFSTI TT 70-58077

AVAILABLE FROM ERS ONLY

Sci/chem

Apr 70

Electronic Interaction During Chemisorption of
Hydrogen on Evaporated Nickel Films, by R. Subraman,
Y. Mizushima, et al, 26 pp.

GERMAN, per, Zeit Physik Chem, Vol XX, 1959,
pp 332-352.

ABC-SCL-Tr-460

Sci - Phys

Aug 63

341,326

Measurement of the Kirkendall Effect in the In-Tl
System, by D. Heitkamp,
GERMAN, par, Zeit Phys Chem, Vol 21, 1959,
pp 82-88,
*Nat Bur Stand TT 70-57818

Sci-Chem
Jul 70

X-ray Analysis of the Electron Density Distribution in Crystals. Part VI. Electron Distribution in Silicon, by S. Gottlicher.
GERMAN, per, Zeit fuer Physik Chemie Neue Folge,
Vol 21, 1959, pp 133-145.
HTC-69-16126-07D

Sci-Chem
Feb 70

403,085

Self-Diffusion of Each of the components in
In-Thallium Alloys, by K. Wagener, 10 pp.
GERMAN, per, Zeitschrift für Physik Chemie
Neue Folge, vol 21, 1959, pp. 153-162.

*CFSTI TT 70-58074

AVAILABLE FROM NBS ONLY

Sci/chem
Apr 70

Contributions to the IR Spectroscopy of
C6H Chromophore, by J. Schurz,
GERMAN, DFR, Z. Physik Chem, Vol XXI, No 3-4,
1959, pp 185-191.

AMS 434-GF

Sci - Chem

Aug 60

123,345

Intense Light Sources for the Vacuum Ultraviolet,
by F. J. Comes, E. W. Schlag, 8 pp.
GERMAN, par, Z Physik Chem, Vol XXI, 1959, pp 212-223.

ABC SCL-T-416

Sci-Phys, Chem
Vol 62
List 70

204. ⁸⁵⁶~~732~~

Halla, Franz.
THE THERMODYNAMICS OF DOLOMITE FORMATION. II. [1960] 8p.
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(Chemistry--Physical, TT, v. 5, no. 8)

61-12792

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2. Dolomite--Production
- I. Halla, F.
- II. ATS-51N48G
- III. Associated Technical Services, Inc., East Orange, N. J.

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AEC ORNL-TH-1736

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1959, pp 81-95. 9207223

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Sci - Phys

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Sci - Phys

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Order from ATS \$7.00 ATS-52N48G

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151572

(Chemistry--Physical, TT, v. 3, no. 8)

61-12796

1. Dolomite--Thermodynamic properties
2. Dolomite--Production
3. Magnesium carbonates--Properties

- I. Halla, F.
- II. Title: Composition ...
- III. ATS-52N48G
- IV. Associated Technical Services, Inc., East Orange, N. J.

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61-14914

I. Meyerhoff, G.

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Meyerhoff, G.
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UNIFORMITY OF ANIONIC POLYSTYROLS ACCORD-
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24 refs.
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Trans. of Zeitschrift für Physikalische Chemie
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[no. 1/2] p. 100-112.

DESCRIPTORS: *Styrenes, *Polymers. Viscosity,
Molecular weight, Polymerization.

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1960, pp 183-205. 9223985
ACSIL Tr 1379

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DESCRIPTORS: *Molecular weight, Distribution.
*Polymers, Theory.

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61-14916

Pigini, R. V. and Schulz, G. V.
MOLECULAR WEIGHT DISTRIBUTIONS WHICH
APPEAR IN FAST POLYMERIZATION REACTIONS
WITHOUT CHAIN TERMINATION. [1961] [44]p.
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Order from SLA \$4.60 61-14916

Trans. of Zeitschrift für Physikalische Chemie
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DESCRIPTORS: *Polymerization, *Polymers,
*Molecular weight, Distribution.

Under ion polymerizations in homogeneous solution
which proceed without branching reactions, the dis-
tribution of chain lengths is determined by the concu-
rence of polymerization rate and mixing velocity. In
particular, in anionic polymerization reactions of
Szwarc type, there are primarily formed extremely
wide distributions (nonuniformity in the size order of
 10^3) which became more and more uniform by coupling
(Chemistry--Physical, TT, v. 6, no. 3) (over)

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Sci - Xrays

May 63

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2. Dolomite--Production
- I. Halla, F.
- II. Title: Determination ...
- III. ATS-53N480
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

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DESCRIPTORS: *Oxidation-reduction reactions,
*Semiconductors, *Electrodes, Electrochemistry,
Metals, Chemical reactions.

(Chemistry--Physical, TT, v. 6, no. 12)

61-25492

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III. ATS-55N53G
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Sci - Phys

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CONCENTRATED AQUEOUS SOLUTIONS. I
[Konzentrierte Wässrige Lösungen. I]. [1963] 20p 20ref.
Order from SLA \$1.60 TT-63-20709

Trans. of Zeitschrift für Physikalische Chemie
[Frankfurt] (West Germany) 1962, Neue Folge, v. 32
[no. 1/2] p. 110-126. (Abstract available)

DESCRIPTORS: *Solutions, *Thermochemistry, Vapor
pressure, *Evaporation, *Enthalpy, Osmotic pressure,
Solubility.

The vapor pressures were determined of water over
concentrated solutions of 14 electrolytes and 4 non-
electrolytes at 20° C and 25° C under use of a statical
method, with accuracies within a few thousands of a
Torr. From these values were calculated: The
enthalpies of evaporation of the water at 22.5° C, the
(Chemistry--Physical, TT, v. 11, no. 4) (over)

TT-63-20709

I. Kangro, W.
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Office of Technical Services